

# Mineral Industry Surveys

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## COPPER IN AUGUST 2005

Mine production of copper rose nominally from its low level in July, according to data compiled by the U.S. Geological Survey, even as the strike begun by ASARCO Incorporated workers in July remained unresolved. Mine production for the first 8 months of the year, however, remained about 6% above that for the first 8 months of 2004. While Asarco was able to maintain production at pre-strike levels at its Silver Bell Mine (Arizona), output at its Ray Mine (Arizona) was down from pre-strike levels, and production at its Mission Mine (Arizona) was completely curtailed in August.

Consumption of refined copper in August rose by 4% to the highest level of the year, yet year-to-date consumption remained about 8% below that for the same period in 2004. Shipments by domestic wire-rod producers were up by about 8% in August compared with those of the previous month, and were at the highest level since August 2004. According to data compiled by the American Bureau of Metal Statistics, Inc. (2005), the apparent consumption of wire rod (domestic shipments plus net imports) rose by 19% in August from that in July owing to an increase in production and net imports and to a drawdown in rod mill inventories.

**Update:**

Copper prices continued to rise to successively higher record levels, with the Comex spot price averaging \$1.94 per pound

during the last week in October. Inventories held in London Metal Exchange Ltd. and Comex warehouses continued to fall. Asarco and its unionized workers reached an agreement on November 7, which if ratified by workers later in the week, would end the 19-week strike that had affected production at its Arizona facilities and Amarillo, TX, refinery (Jarman, 2005<sup>1</sup>). Prior to the announced settlement, Asarco applied for an extension with the U.S. Bankruptcy Court for submittal of schedules outlining assets and liabilities for two of its subsidiaries (Barry, 2005).

**References Cited**

- American Bureau of Metal Statistics, Inc., 2005, US copper wirerod market—ABMS report 4: Sewaren, NJ, American Bureau of Metal Statistics, Inc., October 24, 4 p.  
Barry, Sean, 2005, Asarco seeks more time for bankruptcy filings: American Metal Market, v. 113, no. 44-2, November 8, p. 7.

**Internet Reference Cited**

- Jarman, Max, 2005 (November 9), Asarco, unions reach deal, the Arizona Republic, accessed November 9 at URL <http://www.azcentral.com/business/articles/1109asarco09.html>.

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<sup>1</sup>A reference that includes a section mark (§) is found in the Internet Reference Cited section.

TABLE 1  
SALIENT STATISTICS OF THE COPPER INDUSTRY IN THE UNITED STATES<sup>1</sup>

(Metric tons, unless otherwise specified)

	Source table <sup>2</sup>	2005			
		2004 <sup>p</sup>	July	August	January - August
Production:					
Primary:					
Mine, recoverable	(2)	1,160,000	90,400	91,000	779,000
Refinery:					
Electrolytic:					
Domestic and foreign	(4)	671,000	49,700 <sup>r</sup>	50,500	423,000
Electrowon	(4)	584,000	46,600	47,300	369,000
Total	(4)	1,260,000	96,200 <sup>r</sup>	97,900	792,000
Secondary recoverable copper:					
Refineries	(5)	50,800	3,940	3,590	32,000
Ingot makers <sup>3</sup>	(5)	91,800	7,650	7,650	61,200
Brass and wire-rod mills	(5)	705,000	53,900 <sup>r</sup>	59,100	462,000
Foundries, etc. <sup>3</sup>	(5)	65,200	5,430	5,430	43,400
Smelter, total	(3)	542,000	36,500 <sup>r</sup>	49,300	333,000
Consumption:					
Apparent	(8)	2,570,000	195,000	NA	NA
Refined (reported)	(7)	2,410,000	193,000 <sup>r</sup>	201,000	1,510,000
Purchased copper-base scrap	(9)	1,150,000	89,500 <sup>r</sup>	96,100	759,000
Stocks at end of period:					
Total refined	(11)	136,000	91,000 <sup>r</sup>	79,700 <sup>r</sup>	XX
Blister, etc.	(11)	51,400	33,300 <sup>r</sup>	43,800 <sup>r</sup>	XX
Prices:					
U.S. producer cathode (cents per pound) <sup>4</sup>	(12)	133.938	168.484	176.905	159.602
Imports: <sup>5</sup>					
Ores and concentrates <sup>6</sup>	(14)	22,900	17	NA	NA
Refined	(14)	807,000	75,800	NA	NA
Exports: <sup>5</sup>					
Ores and concentrates <sup>6</sup>	(15)	24,200	5,960	NA	NA
Refined	(15)	118,000	3,010	NA	NA

<sup>p</sup>Preliminary. <sup>r</sup>Revised. NA Not available. XX Not applicable.

<sup>1</sup>Data are rounded to no more than three significant digits, except prices; may not add to totals shown.

<sup>2</sup>Numbers in parentheses refer to the significant tables where these data are located.

<sup>3</sup>Monthly data and 2004 cumulative data estimated based on 2003 monthly average.

<sup>4</sup>Source: Platts Metals Week.

<sup>5</sup>Source: U.S. Census Bureau.

<sup>6</sup>Copper content.

TABLE 2  
MINE PRODUCTION OF RECOVERABLE COPPER IN THE UNITED STATES<sup>1</sup>

(Metric tons)

Period	Recoverable copper			Contained copper		
	Arizona	Others <sup>2</sup>	Total	Electrowon	Concentrates <sup>3</sup>	Total
2004: <sup>p</sup>						
January - August	471,000	267,000 <sup>r</sup>	738,000 <sup>r</sup>	388,000	360,000 <sup>r</sup>	748,000 <sup>r</sup>
August	62,800	36,200	99,000	49,300	51,200	100,000
September	62,800	36,400	99,200	49,800	50,800	101,000
October	64,200	39,400	104,000	48,900	56,300	105,000
November	61,400	46,500	108,000	47,600	62,100	110,000
December	63,300	45,200	109,000	50,000	60,300	110,000
Year	723,000	435,000	1,160,000	584,000	590,000	1,170,000
2005:						
January	58,500	39,800	98,300	42,400	57,600	99,900
February	54,200	37,500	91,700	40,800	52,400	93,100
March	62,100	43,200	105,000	47,400	59,600	107,000
April	62,000	39,000	101,000	47,700	55,000	103,000
May	65,300	38,100	103,000	48,800	56,400	105,000
June <sup>r</sup>	61,700	36,000	97,700	48,100	51,100	99,200
July	54,400	36,000	90,400	46,600	45,000	91,600
August	55,200	35,800	91,000	47,300	44,900	92,200
January - August	473,000	305,000	779,000	369,000	422,000	791,000

<sup>p</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Includes production from, Idaho, Missouri, Montana, Nevada, New Mexico, and Utah.

<sup>3</sup>Includes copper content of precipitates and other metal concentrates.

TABLE 3  
COPPER PRODUCED AT SMELTERS IN  
THE UNITED STATES, BY SOURCE<sup>1,2</sup>

(Metric tons, copper content)

Period	Anode production
2004: <sup>p</sup>	
January - August	353,000
August	51,300
September	48,000
October	49,200
November	42,300
December	49,900
January - December	542,000
2005:	
January	42,700
February	36,100
March	37,900
April	49,700
May	36,900
June	44,100
July	36,500 <sup>r</sup>
August	49,300
January - August	333,000

<sup>p</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Includes blister, anode and copper from primary or secondary sources.

<sup>2</sup>Data are rounded to no more than three significant digits; may not add to total shown.

TABLE 4  
PRODUCTION OF REFINED COPPER, BY SOURCE AND METHOD OF RECOVERY<sup>1</sup>

(Metric tons)

Period	Primary materials			Scrap	Total refined
	Electrolytically refined <sup>2</sup>	Electrowon	Total		
2004: <sup>P</sup>					
January - August	430,000	388,000	818,000	33,400	851,000
August	53,400	49,300	103,000	3,870	107,000
September	57,700	49,800	108,000	4,660	112,000
October	57,400	48,900	106,000	4,540	111,000
November	56,700	47,600	104,000	4,190	109,000
December	69,300	50,000	119,000	4,010	123,000
Year	671,000	584,000	1,260,000	50,800	1,310,000
2005:					
January	54,900	42,400	97,200	4,380	102,000
February	57,400	40,800	98,100	4,380	102,000
March	52,600	47,400	100,000	4,210	104,000
April	53,100	47,700	101,000	4,160	105,000
May	56,100	48,800	105,000	3,750	109,000
June	49,100	48,100	97,200	3,620	101,000
July	49,700 <sup>r</sup>	46,600	96,200 <sup>r</sup>	3,940	100,000
August	50,500	47,300	97,900	3,590	101,000
January - August	423,000	369,000	792,000	32,000	824,000

<sup>P</sup>Preliminary.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>From domestic and foreign source materials.

TABLE 5  
COPPER RECOVERABLE IN UNALLOYED AND ALLOYED FORM FROM PURCHASED COPPER-BASE SCRAP<sup>1</sup>

(Metric tons, copper content)

Period	Refineries <sup>2</sup>		Ingot makers <sup>3</sup>		Brass and wire-rod mills		Foundries, etc. <sup>3</sup>		Total <sup>4</sup>
	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2004: <sup>P</sup>									
January - August	10,700	22,700	11,100 <sup>r</sup>	50,100 <sup>r</sup>	458,000 <sup>r</sup>	24,900	16,500 <sup>r</sup>	27,000 <sup>r</sup>	621,000 <sup>r</sup>
August	1,340	2,540	1,390	6,260	56,800	2,450	2,060	3,370	76,200
September	1,340	3,320	1,390	6,260	55,200	2,690	2,060	3,370	75,600
October	1,340	3,210	1,390	6,260	56,800	2,670	2,060	3,370	77,100
November	1,340	2,850	1,390	6,260	50,500	2,670	2,060	3,370	70,500
December	1,340	2,680	1,390	6,260	48,000	3,300	2,060	3,370	68,400
Year	16,000	34,700	16,700	75,100	669,000	36,300	24,700	40,400	913,000
2005:									
January	1,340	3,050	1,390	6,260	57,700	2,780	2,060	3,370	77,900
February	1,340	3,040	1,390	6,260	54,900	3,110	2,060	3,370	75,500
March	1,340	2,870	1,390	6,260	56,300	2,980	2,060	3,370	76,500
April	1,340	2,820	1,390	6,260	54,200	3,220	2,060	3,370	74,700
May	1,340	2,410	1,390	6,260	54,100	2,550	2,060	3,370	73,500
June	1,340	2,280	1,390	6,260	54,500	2,380	2,060	3,370	73,600
July	1,340	2,610	1,390	6,260	51,000 <sup>r</sup>	2,840	2,060	3,370	70,900 <sup>r</sup>
August	1,340	2,260	1,390	6,260	56,200	2,840	2,060	3,370	75,700
January - August	10,700	21,300	11,100	50,100	439,000	22,700	16,500	27,000	598,000

<sup>P</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Electrolytically refined and fire-refined scrap based on source of material at smelter level.

<sup>3</sup>Monthly data and 2004 cumulative data estimated based on 2003 annual data.

<sup>4</sup>Does not include an estimate, based on reported 2003 data of 3,040 tons per month from new scrap and 1,830 tons per month of copper recovered from scrap other than copper-base.

TABLE 6  
PRODUCTION, SHIPMENTS, AND STOCKS OF BRASS AND WIRE-ROD SEMIFABRICATES<sup>1</sup>

(Metric tons, gross weight)

Period	Production		Shipments		Stocks, end of period	
	Brass mills	Wire-rod mills	Brass mills	Wire-rod mills	Brass mills	Wire-rod mills
2004: <sup>p</sup>						
January - August	950,000 <sup>r</sup>	1,230,000 <sup>r</sup>	951,000 <sup>r</sup>	1,220,000	XX	XX
August	119,000	162,000	118,000	156,000	54,700	29,500
September	113,000	154,000	113,000	148,000	54,500	35,600
October	120,000	135,000	120,000	148,000	54,400	23,000
November	107,000	148,000	108,000	144,000	52,900	26,600
December	100,000	134,000	97,600	130,000	55,300	31,200
Year	1,390,000	1,800,000	1,390,000	1,790,000	XX	XX
2005:						
January	113,000	141,000	114,000	137,000	55,100	35,100
February	109,000	135,000	110,000	134,000	53,300	35,100
March	117,000	135,000	117,000	149,000	53,600	20,600
April	109,000	143,000	112,000	141,000	50,200	22,000
May	111,000	145,000	110,000	143,000	51,400	23,500
June	115,000	145,000	116,000	145,000	50,300	23,100
July	109,000	148,000	113,000	140,000	46,300	31,000
August	123,000	146,000	123,000	151,000	46,200	25,800
January - August	906,000	1,140,000	915,000	1,140,000	XX	XX

<sup>p</sup>Preliminary. <sup>r</sup>Revised. XX Not applicable.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

TABLE 7  
CONSUMPTION OF REFINED COPPER<sup>1</sup>

(Metric tons)

Period and item	Brass mills	Wire-rod mills	Other plants <sup>2</sup>	Total
2004: <sup>p</sup>				
January - August	395,000 <sup>r</sup>	1,220,000	41,200 <sup>r</sup>	1,650,000 <sup>r</sup>
August	48,500	165,000	5,160	218,000
September	46,100	151,000	5,160	202,000
October	48,200	136,000	5,160	190,000
November	44,700	145,000	5,160	195,000
December	39,200	129,000	5,160	173,000
Year	573,000	1,780,000	61,900	2,410,000
2005:				
January	44,900	145,000	5,160	195,000
February	42,500	129,000	5,160	177,000
March	46,100	134,000	5,160	185,000
April	41,500	143,000	5,160	190,000
May	43,000	132,000	5,160	180,000
June	46,200	141,000	5,160	192,000
July	42,100	146,000	5,160	193,000
August:				
Cathodes	30,600	150,000	881	182,000
Wire bars	--	--	(3)	(3)
Ingots and ingot bars	2,060	--	1,760	3,820
Cakes and slabs	(3)	--	(3)	(3)
Billets and other	13,200	W	2,510	15,700
Total	45,900	150,000	5,160	201,000
January - August	352,000	1,120,000	41,200	1,510,000

<sup>p</sup>Preliminary. <sup>r</sup>Revised. W Withheld to avoid disclosing company proprietary data included with "Cathodes." -- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Consumption by ingot makers, chemical plants, foundries, and miscellaneous manufacturers is estimated based on 2003 annual data.

<sup>3</sup>Withheld to avoid disclosing company proprietary data; included with "Billets and others."

TABLE 8  
U.S. APPARENT CONSUMPTION OF COPPER<sup>1</sup>

(Metric tons)

Period	Refined copper production	Copper in old scrap <sup>2</sup>	Refined general imports <sup>3</sup>	Refined exports <sup>3</sup>	Stock change during period	Apparent consumption
2004: <sup>P</sup>						
January - July	715,000	123,000 <sup>r</sup>	378,000 <sup>r</sup>	93,600	(444,000) <sup>r</sup>	1,570,000
July	99,900	16,600	75,600	5,470	(22,800)	209,000
August	103,000	16,400	65,500	9,350	(33,200)	209,000
September	108,000	17,400	73,800	570	(23,100)	222,000
October	106,000	17,300	60,200	3,890	(12,400)	192,000
November	104,000	16,900	75,300	2,460	(7,870)	202,000
December	119,000	17,400	51,100	8,390	(743) <sup>r</sup>	180,000
Year	1,260,000	208,000	704,000	118,000	(521,000)	2,570,000
2005:						
January	97,200	17,200	77,900	4,460	6,350	182,000
February	98,100	17,600	66,500	3,230	(7,110)	186,000
March	100,000	17,300	72,000	2,830	(6,550)	193,000
April	101,000	17,500	63,300	1,900	(4,560)	184,000
May	105,000	16,400	101,000	7,240	(12,000)	227,000
June	97,200	16,100	64,100	4,270	(11,700)	185,000
July	96,200 <sup>r</sup>	16,900	75,500	3,010	(9,110) <sup>r</sup>	195,000 <sup>r</sup>
August	97,900	15,900	NA	NA	(3,440)	NA
January - July	695,000	119,000	597,000	26,900	(44,700)	1,350,000

<sup>P</sup>Preliminary. <sup>r</sup>Revised. NA Not available.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Includes reported monthly production of copper from old scrap of copper-base, an estimate for annual reporters, and a monthly average of copper from non-copper-base materials based on 2003 data.

<sup>3</sup>Source: U.S. Census Bureau.

TABLE 9  
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP<sup>1</sup>

(Metric tons, gross weight)

Period	Smelters and refineries		Ingot makers <sup>2</sup>		Brass and wire-rod mills <sup>3</sup>		Foundries, etc. <sup>2</sup>		Total scrap used
	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2004: <sup>P</sup>									
January - August	10,800	22,800	14,800 <sup>r</sup>	72,800 <sup>r</sup>	577,000 <sup>r</sup>	25,900	28,800 <sup>r</sup>	29,600 <sup>r</sup>	783,000 <sup>r</sup>
August	1,350	2,550	1,850	9,110	72,600	2,580	3,600	3,700	97,400
September	1,350	3,290	1,850	9,110	70,300	2,820	3,600	3,700	96,000
October	1,350	3,230	1,850	9,110	71,500	2,810	3,600	3,700	97,200
November	1,350	2,890	1,850	9,110	63,300	2,780	3,600	3,700	88,500
December	1,350	2,700	1,850	9,110	60,300	3,440	3,600	3,700	86,000
Year	16,200	34,900	22,200	109,000	843,000	37,700	43,200	44,400	1,150,000
2005:									
January	1,350	3,080	1,850	9,110	72,400	2,910	3,600	3,700	98,000
February	1,350	3,080	1,850	9,110	69,800	3,280	3,600	3,700	95,800
March	1,350	2,900	1,850	9,110	71,800	3,170	3,600	3,700	97,500
April	1,350	2,850	1,850	9,110	68,400	3,370	3,600	3,700	94,200
May	1,350	2,440	1,850	9,110	68,600 <sup>r</sup>	2,710	3,600	3,700	93,400 <sup>r</sup>
June	1,350	2,310	1,850	9,110	70,200	2,550	3,600	3,700	94,700
July	1,350	2,640	1,850	9,110	64,300 <sup>r</sup>	2,980	3,600	3,700	89,500 <sup>r</sup>
August	1,350	2,280	1,850	9,110	71,200	2,980	3,600	3,700	96,100
January - August	10,800	21,600	14,800	72,800	557,000	23,900	28,800	29,600	759,000

<sup>P</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Monthly data and 2004 cumulative data estimated from 2003 annual data.

<sup>3</sup>Consumption at brass and wire-rod mills assumed equal to receipts.

TABLE 10  
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP<sup>1,2</sup>

(Metric tons, gross weight)

Scrap type and processor	2004 <sup>p</sup>		2005			
	January - August	Year	June	July	August	January - August
No. 1 wire and heavy:						
Smelters and refiners	45,700 <sup>r</sup>	68,500	5,710	5,710	5,710	45,700
Brass and wire-rod mills	270,000 <sup>r</sup>	394,000	28,900	30,100 <sup>r</sup>	32,100	251,000
No. 2 mixed heavy and light:						
Smelters and refiners	17,400 <sup>r</sup>	26,800	1,630	1,960	1,610	16,200
Brass and wire-rod mills	4,690	6,250	407	458	502	3,730
Total unalloyed scrap:						
Smelters and refiners	63,100 <sup>r</sup>	95,300	7,340	7,670	7,310	61,900
Brass and wire-rod mills	275,000 <sup>r</sup>	401,000	29,300	30,500 <sup>r</sup>	32,600	255,000
Red brass: <sup>3</sup>						
All plants	26,500 <sup>r</sup>	39,300	3,180	3,050	3,410	25,400
Leaded yellow brass:						
All plants	221,000 <sup>r</sup>	322,000	16,900	14,300	16,200	127,000
Yellow and low brass:						
All plants	27,600 <sup>r</sup>	41,300	15,900	13,000	14,700	117,000
Cartridge cases and brass:						
All plants	58,000 <sup>r</sup>	86,600	8,350	7,370	8,310	63,800
Auto radiators:						
Smelters and refiners	17,800 <sup>r</sup>	26,700	2,230	2,230	2,230	17,800
Bronzes:						
Smelters and refiners	5,600 <sup>r</sup>	8,390	699	699	699	5,590
Brass mills	4,310 <sup>r</sup>	6,350	479	473	474	3,730
Nickel-copper alloys:						
All plants	14,400 <sup>r</sup>	20,000	1,700	1,590	1,420	12,800
Low grade and residues:						
Smelters and refiners	8,400 <sup>r</sup>	12,600	1,050	1,050	1,050	8,400
Other alloy scrap: <sup>4</sup>						
Smelters and refiners	734 <sup>r</sup>	1,100	92	92	92	736
Brass mills	3,530	4,860	332	332	332	3,000
Total alloyed scrap:						
Smelters and refiners	59,400 <sup>r</sup>	89,100	7,420	7,420	7,420	59,400
Brass mills	329,000 <sup>r</sup>	480,000	43,400	36,800	41,500	326,000
Total scrap:						
Smelters and refiners	122,000 <sup>r</sup>	184,000	14,800	15,100	14,700	121,000
Brass and wire-rod mills	603,000 <sup>r</sup>	880,000	72,800	67,300 <sup>r</sup>	74,200	581,000

<sup>p</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Does not include: consumption by foundries, chemical plants, and miscellaneous manufacturers, estimated to total about 7,300 tons of scrap per month based on 2003 annual data; monthly data include estimates of about 11,000 tons of scrap per month consumed by ingot makers.

<sup>2</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>3</sup>Includes composition turnings, silicon bronze, zincy bronze, railroad car boxes, cocks and faucets, gilding metal, and commercial bronze.

<sup>4</sup>Includes refinery brass, beryllium copper, phosphor copper, and aluminum bronze.

TABLE 11  
COPPER STOCKS AT END OF PERIOD<sup>1</sup>

(Metric tons)

Period	Crude copper <sup>2</sup>	Refined copper						Total refined
		Refineries <sup>3</sup>	Wire-rod mills <sup>3</sup>	Brass mills <sup>3</sup>	Other <sup>4</sup>	Comex <sup>5</sup>	LME <sup>6</sup>	
2004: <sup>p</sup>								
August	65,700	8,640	21,400	22,600	4,870	55,900	66,400	180,000
September	71,600	7,830	15,200	24,900	4,870	44,900	59,000	157,000
October	72,200	9,210	25,200	20,300	4,870	41,300	43,400	144,000
November	70,600	13,100	24,300	18,200	4,870	38,500	37,500	136,000
December	51,400	10,400 <sup>r</sup>	20,300	21,500	4,870	43,700	35,000	136,000
2005:								
January	66,100	12,300	24,300	24,100	4,870	41,600	34,900	142,000
February	46,700	10,600	20,800	22,300	4,870	42,500	33,900	135,000
March	42,300	6,820	25,000	20,900	4,870	39,300	31,500	128,000
April	42,500	8,200	31,100	20,300	4,870	27,300	32,100	124,000
May	38,200	9,680	29,600	19,300	4,870	20,200	28,200	112,000
June	45,200	5,810	32,600	20,600	4,870	13,900	22,400	100,000
July	33,300 <sup>r</sup>	8,330 <sup>r</sup>	29,800	19,900 <sup>r</sup>	4,870	9,970	18,200	91,000 <sup>r</sup>
August	43,800	5,640	28,200	20,700	4,870	8,420	11,900	79,700

<sup>p</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Copper content of blister and other materials in transit and in process of refining.

<sup>3</sup>Stocks of refined copper as reported; no estimates are made for nonrespondents.

<sup>4</sup>Monthly estimates based on reported and 2003 annual data, comprising stocks at ingot makers, chemical plants, foundries, and miscellaneous manufacturers.

<sup>5</sup>Commodity Exchange Inc., New York.

<sup>6</sup>London Metal Exchange Ltd., U.S. warehouses.

TABLE 12  
AVERAGE PRICE OF COPPER IN THE UNITED STATES  
AND ON THE LONDON METAL EXCHANGE

(Cents per pound)

Period	U.S. producers delivered price cathode <sup>1</sup>	Comex first position <sup>2</sup>	LME cash price Grade A
2004:			
August	133.015	127.752	129.064
September	136.680	131.414	131.283
October	140.273	135.007	136.575
November	146.599	141.333	141.620
December	150.897	145.631	142.633
Year	133.938	128.972	129.958
2005:			
January	150.261	144.995	143.751
February	151.905	146.639	147.544
March	153.946	148.680	153.268
April	154.606	149.340	153.938
May	153.256	147.990	147.331
June	167.452	162.186	159.807
July	168.484	163.218	163.909
August	176.905	171.639	172.230
January - August	159.602	154.336	155.222

<sup>1</sup>Listed as "U.S. producer cathode."

<sup>2</sup>Listed as "Comex high grade first position."

Sources: Platts Metals Week and American Metal Market.



TABLE 13  
NEW YORK AVERAGE BUYING PRICES FOR COPPER SCRAP

(Cents per pound)

Month	Brass mills No. 1 scrap	Refiners No. 2 scrap	Dealers (New York)	
			No. 2 Scrap	Red brass turnings and borings
2004:				
August	126.64	101.73	89.00	55.00
September	127.29	106.19	89.00	55.00
October	130.43	113.38	89.00	55.00
November	135.40	118.15	89.00	55.00
December	139.14	121.00	89.00	55.00
Year	126.41	107.62	86.86	55.14
2005:				
January	139.40	119.50	89.00	55.00
February	139.89	121.67	89.00	55.00
March	142.52	123.43	89.00	55.00
April	143.52	126.00	89.00	55.00
May	138.24	124.76	89.00	55.00
June	137.23	124.82	93.09	59.09
July	153.40	141.60	99.00	65.00
August	142.26	126.52	99.00	65.00
January - August	142.06	126.04	92.01	58.01

Source: American Metal Market.

TABLE 14  
U.S. IMPORTS FOR CONSUMPTION OF COPPER (UNMANUFACTURED), BY CLASS<sup>1</sup>

(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash and precipitates			Blister and anodes			Refined		
	2005			2005			2005			2005		
	January -			January -			January -			January -		
	2004	July	July	2004	July	July	2004	July	July	2004	July	July
Brazil	--	--	--	--	--	--	--	--	10	15,600	4,010	16,000
Canada	516	--	2	99	--	69	75,500	6,230	49,400	278,000	28,600	184,000
Chile	--	--	--	--	--	--	48,900	3,560	23,600	311,000	26,700	202,000
Germany	--	--	--	--	--	38	--	--	--	21,000	1,880	16,000
Mexico	22,400	17	221	206	--	37	8,630	378	3,870	19,300	--	27,000
Namibia	--	--	--	--	--	--	7,710	--	--	--	--	--
Peru	--	--	--	--	--	--	10,200	--	--	152,000	13,700	87,400
Taiwan	--	--	--	1,330	89	703	--	--	--	(2)	--	--
Other	--	--	--	45	--	97	35 <sup>2</sup>	--	1	10,500 <sup>2</sup>	967	6,730
Total	22,900	17	223	1,680	89	944	151,000	10,200	76,900	807,000	75,800	539,000

<sup>1</sup>Revised. -- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Less than 1/2 unit.

Source: U.S. Census Bureau.

TABLE 15  
U.S. EXPORTS OF COPPER (UNMANUFACTURED), BY CLASS<sup>1</sup>

(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash and precipitates			Blister and anodes			Refined		
	2005			2005			2005			2005		
	January -			January -			January -			January -		
	2004	July	July	2004	July	July	2004	July	July	2004	July	July
Belgium	6	--	39	45	--	37	1,320	--	675	998	--	49
Canada	18,200	352	8,900	18,800	1,680	12,000	22,400	943	11,700	2,230	119	1,470
China	2,340	5,500	37,800	52	792	4,750	307	24	206	23,900	1,100	13,500
Costa Rica	--	--	3	--	(2)	(2)	--	--	--	1,300	--	1
Germany	32	--	--	23	(2)	15	1,880	--	489	70	--	133
Hong Kong	229	--	2	12	--	1	3,410	415	1,990	11	--	--
India	56	--	149	21	--	1	164	--	41	2,940	701	4,950
Italy	--	--	--	--	--	18	1,570	140	2,170	21,100	--	14
Japan	2,510	--	10,400	122	--	68	705	152	1,350	66	--	5
Korea, Republic of	23	--	1	8	2	2	8,910	29	267	5,060	--	83
Mexico	115	--	6,380	2,650	163	582	221	1,110	1,490	20,500	890	5,720
Saudi Arabia	--	--	--	--	--	--	--	--	11	7,840	11	11
Singapore	--	--	19	19	1	16	654	40	329	39	--	13
Spain	308	60	1,630	--	--	--	347	61	162	--	--	--
Sweden	--	--	--	--	--	--	399	20	1,060	3	--	--
Taiwan	109	15	15	5	--	1	1,320	60	917	29,000	--	55
Other	311 <sup>r</sup>	36	165	336 <sup>r</sup>	44	131	2,830 <sup>r</sup>	102	596	3,200 <sup>r</sup>	185	965
Total	24,200	5,960	65,400	22,100	2,680	17,600	46,400	3,090	23,500	118,000	3,010	26,900

<sup>r</sup>Revised. -- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Less than 1/2 unit.

Source: U.S. Census Bureau.

TABLE 16  
U.S. COPPER SCRAP IMPORTS<sup>1</sup>

(Metric tons, gross weight)

Country or territory	Unalloyed			Alloyed		
	2005			2005		
	January-			January-		
	2004	July	July	2004	July	July
Canada	6,370	462	3,740	44,500	3,200	26,000
China	1	--	--	448	11	63
Costa Rica	1,400	228	1,160	516	21	204
Germany	48	37	68	1,130	(2)	1
Guatemala	271	--	37	1,050	97	811
Honduras	1,430	96	1,010	625	--	274
Jamaica	429	14	154	182	13	70
Japan	65	4	24	145	--	82
Mexico	10,300	1,430	6,900	22,100	1,730	13,900
Taiwan	--	--	--	1,480	48	124
United Kingdom	554	38	178	1,030	180	541
Other	2,570 <sup>r</sup>	195	1,230	5,060 <sup>r</sup>	314	4,390
Total	23,400	2,510	14,500	78,300	5,620	46,500

<sup>r</sup>Revised. -- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 17  
U.S. COPPER SCRAP EXPORTS<sup>1</sup>

(Metric tons, gross weight)

Country or territory	Unalloyed							Alloyed				
	2005							2005				
	2004	No. 1		No. 2		Other		2004	Segregated		Unsegregated	
		January-		January-		January-			January-		January-	
		July	July	July	July	July	July		July	July	July	July
Belgium	3,850	--	--	--	1	34	395	8,200	110	836	443	3,060
Canada	33,300	--	--	--	--	1,920	16,000	15,000	267	2,050	927	5,430
China	222,000	9,790	55,200	9,870	69,900	6,720	38,300	239,000	8,270	61,500	9,180	60,300
Germany	8,830	154	598	--	320	751	5,570	13,800	95	1,280	476	4,610
Hong Kong	3,910	569	2,870	205	1,450	40	392	11,000	244	2,540	684	5,240
India	4,160	44	326	--	240	310	2,400	45,100	897	9,830	137	861
Japan	7,930	--	21	--	626	612	3,660	9,660	324	3,230	82	1,270
Korea, Republic of	22,400	638	3,850	782	6,500	1,030	6,460	16,300	471	6,490	--	1,500
Mexico	4,560	208	458	--	200	--	195	1,570	94	366	109	266
Spain	37	--	2	2	140	--	2	2,740	21	248	335	1,350
Taiwan	11,300	226	840	307	3,920	330	2,290	13,700	1,130	4,880	52	833
Thailand	--	--	--	--	--	40	480	1,250	38	404	14	14
United Kingdom	34	--	--	--	--	--	107	4,560	69	168	--	1,830
Other	2,990	1	35	--	192	56	456	7,210	989	4,880	--	810
Total	325,000	11,600	64,200	11,200	83,500	11,800	76,700	389,000	13,000	98,700	12,400	87,300

-- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.